

Serial No.: 10/628,320

Response to Office Action mailed April 24, 2006

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A formulation dispenser for dispensing a material, the material including either of a liquid or paste, comprising:
 - at least one material reservoir cylinder for containing the material;
 - ~~a supply tube from the reservoir cylinder to a~~ pressure responsive valve in fluid communication with the at least one material reservoir cylinder;
 - ~~the aforementioned valve, the valve being controlled by a human/machine interface controlling~~ the dispensing of material through the valve;
 - said valve directing material from the cylinder ~~sent through the supply tube~~ to a receiving container;
 - a sensor for detecting the presence ~~amount~~ of material ~~dispensed~~ into the receiving container and for communicating with the human/machine interface.
2. (Currently Amended) A formulation dispenser as in claim 1 further comprising:
 - a plurality of material reservoir cylinders each for containing a material ~~bag;~~ and
 - ~~a supply tube from all of the plurality of material reservoir cylinders to the valve.~~
3. (Original) A formulation dispenser as in claim 1 further comprising:
 - an alternate material reservoir container.
4. (Previously Presented) A formulation dispenser as in claim 1, further comprising a scale for weighing material dispensed into the receiving container.
5. (Currently Amended) A formulation dispenser as in claim 1 ~~4~~ further comprising wherein the a pressure responsive dispense valve for controlling the amount of material dispensed into the receiving

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container includes a valve head and a connector sleeve that may double over and cause a valve orifice on the valve head to open.

6. (Currently Amended) A formulation dispenser as in claim 5, further comprising ~~a dispense cylinder with a piston to direct material through the~~ the first mentioned valve directing material is directed to the dispense cylinder and through the dispense valve thence to the dispense tube.

7.7. (Currently Amended) A method of dispensing to create a formulation, utilizing at least one material reservoir cylinder for containing a material, and a pressure responsive valve in fluid communication with the reservoir cylinder, comprising:

- utilizing the valve to direct material from the cylinder to a receiving container;
- utilizing a sensor to detect the amount presence of material directed to the receiving container;
- weighing the material dispensed in the receiving container; and
- dispensing relatively small amounts of material into the receiving container until a target weight has been reached.

8. (Currently Amended) A formulation dispenser as in claim 2 wherein the at least one of the plurality of material reservoir cylinders contains material bag ~~further comprises:~~

- a compressible material bag with an opening and at least one corner, the at least one corner defining a delta seal; and
- a bag spout sized to fit to the opening.

9. (Currently Amended) A formulation dispenser comprising:

- at least one material container for containing material to be dispensed,
- a pressure responsive valve that will open rollingly to control the flow of material to be dispensed, and

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a sensor for detecting the ~~amount~~ presence of material discharged through the pressure responsive valve and for communicating with a human/machine interface which further controls additional amount of material to be dispensed through the valve.

10. (Original) The formulation dispenser of claim 9 further comprising:
a receiving container, and
a scale for detecting the amount of material discharged through the pressure responsive valve.
11. (Previously Presented) The formulation dispenser of claim 9 wherein the human/machine interface is a computer.
12. (Original) The formulation dispenser of claim 9 wherein the material container further includes a material bag.
13. (Original) The formulation dispenser of claim 9 further comprising a piston for pushing material to be dispensed.
14. (Currently Amended) A formulation dispenser comprising:
at least one material container for containing material to be dispensed,
a pressure responsive valve that will open rollingly to control the flow of material to be dispensed, and will close to cut the material to be dispensed;
a sensor for detecting the presence of material discharged through the pressure responsive valve;
and
a scale for detecting the amount of material discharged through the pressure responsive valve and for communicating with a human/machine interface which further controls additional amount of material to be dispensed through the valve.

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15. (Currently Amended) The formulation dispenser of claim 14 further comprising:
a receiving container; and
~~a sensor for detecting the amount of material discharged through the pressure responsive valve.~~
16. (Previously Presented) The formulation dispenser of claim 15 wherein the human/machine interface is a computer.
17. (Original) The formulation dispenser of claim 14 wherein the material container further includes a material bag.
18. (Original) The formulation dispenser of claim 16 further comprising an actuator for pushing material to be dispensed.
19. (Currently Amended) A formulation dispenser for dispensing material, the dispenser comprising a dispenser cylinder and a piston body ~~human/machine interface~~ for controlling the dispensing of material through a pressure responsive valve that will open rollingly upon the application of pressure exerted by the piston body on the material to be dispensed, the valve controlling the flow of material to be dispensed, and the valve closing upon the reduction of pressure exerted on the material and cutting the material.
20. (Currently Amended) The formulation dispenser of claim 20 further comprising an actuator for exerting pressure on the piston body ~~material to be dispensed.~~
21. (New) The formulation dispenser of claim 1 wherein the sensor is either a video or beam-type sensor.
22. (New) The formulation dispenser of claim 20 further comprising a human/machine interface for controlling the actuator.

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23. (New) The formulation dispenser of claim 22 further comprising a sensor for detecting the presence of material discharged through the pressure responsive valve.

24. (New) The formulation dispenser of claim 23 further comprising a scale for weighing material dispensed through the pressure responsive valve.

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